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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

DAY, HERNG DER

ART UNIT PAPER NUMBER

2128

DATE MAILED: 11/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/827,267

Applicant(s)

ELAZAR ET AL.

Examiner

Herng-der Day

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- ☐ Notice of Informal Patent Application
- ☐ Other: ____.

DETAILED ACTION

1. Claims 1-21 have been examined and rejected.

Specification

2. The disclosure is objected to because it contains embedded hyperlinks and/or other form of browser-executable code at pages 6 and 11. Applicants are required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

Claim Objections

3. Claims 1, 20, and 21 are objected to because of the following informalities. Appropriate correction is required.

3-1. Regarding claim 1, “part of the web content is served to the to the digital appliance”, as described in line 8 of the claim. (Emphasis added.)

3-2. Regarding claim 20, “part of the web content is served the to the digital appliance”, as described in line 13 of the claim. (Emphasis added.)

3-3. Regarding claim 21, “part of the web content is served the to the digital appliance”, as described in line 5 of the claim. (Emphasis added.)

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-3, 12, and 18-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Debling, U.S. Patent 7,031,903 B2 issued April 18, 2006, and filed October 16, 2001.

5-1. Regarding claim 1, Debling discloses a web server emulation device for serving web content, the web server emulation device adapted to be coupled to a digital appliance for end use of at least part of the web content, the web server emulation device comprising:

one or more non-volatile storages for storing at least part of the web content (The on-chip memory circuitry 721 may comprise flash-memory, column 5, lines 20-32);

one or more interfaces, coupled to at least one of the nonvolatile storages, the one or more interfaces for receiving and sending at least part of the web content (an on-chip Ethernet interface 740, column 5, lines 20-32), and

one or more agents for preparing web content to be served the digital appliance (using embedded web server processes, column 5, lines 41-43), wherein at least part of the web content is served the digital appliance (a host computer system 800, column 5, lines 20-32) for end use of the web content (information processed by the embedded web server process is web content).

5-2. Regarding claim 2, Debling further discloses wherein the web server emulation device is coupled to the digital appliance (a host computer system 800, column 5, lines 20-32).

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5-3. Regarding claim 3, Debling further discloses wherein the digital appliance is a computer (a host computer system 800, column 5, lines 20-32).

5-4. Regarding claim 12, Debling further discloses wherein the web server emulation device couples to the digital appliance via a physical connection to the digital appliance (The Ethernet port 750 connects to the host via a direct link 751, column 5, lines 20-32).

5-5. Regarding claim 18, Debling further discloses wherein said one or more agents prepare web content to be served by using information received from the coupled digital appliance (move certain selected processes from the host onto the on-chip processing circuitry 720, column 5, lines 41-53).

5-6. Regarding claim 19, Debling further discloses wherein said one or more agents obtain web content from a remote server (Use of the telephone line port enables Internet connection, column 5, lines 61-67).

5-7. Regarding claim 20, the system claim includes equivalent method limitations as in claim 1 and is anticipated using the same analysis of claim 1.

6. Claim 21 is rejected under 35 U.S.C. 102(a) as being anticipated by Ahn et al., KR Patent Publication No. KR2003000794A published January 6, 2003.

6-1. Regarding claim 21, Ahn et al. disclose a method for serving web content using a web server emulation device, comprising:

preparing the web content to be served (The web page for providing the development environment of the target embedded system(3) is stored in the memory, Abstract);

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serving the web content from a web server emulation device to a coupled digital appliance (The host interface(21) interfaces the host system(1) and the web based in-circuit emulator(2) with each other by providing the diverse communication paths, Abstract); wherein at least part of the web content is served the digital appliance for end use of the web content (a host system(1) supporting the web browser, Abstract).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 4-11 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Debling, U.S. Patent 7,031,903 B2 issued April 18, 2006, and filed October 16, 2001, in view of Applicants' admission.

8-1. Regarding claims 4 and 5, Debling discloses a web server emulation device in claim 1.

Debling fails to expressly disclose wherein the digital appliance is a personal digital assistant or a mobile phone.

Applicants assert in the specification at page 2, line 20 through page 3, line 2, "Web pages may be displayed on a client computing device (hereafter Client Digital Appliance) such as PC, laptops, PDA, mobile phone and any other computational device that can connect to the Internet." In other words, a personal digital assistant or a mobile phone may be used to display web pages.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Debling to incorporate Applicants' admission to obtain the invention as specified in claims 4 and 5 because using a personal digital assistant or a mobile phone to display web pages would provide improved mobility for a user than using a host computer system.

8-2. Regarding claims 6-11, Debling discloses a web server emulation device in claim 1.

Debling fails to expressly disclose wherein the web content is a web page, streamed content, an electronic book, a document, an HTML form, or a multimedia file.

Applicants assert in the specification at page 3, lines 12-21, "The content sent to the browser can be of several types and formats. It can be static, such as a text file or an image file; HTML (Hyper Text Markup Language) is frequently used to describe static information on a web page. Other types can be streamed data, such as video and audio, which are transmitted as a stream composed of chunks of information, then processed and rendered as received. Another type of information can be a file such as text, video, audio, games, programs, Java applets, or ActiveX controls, all of which may be downloaded from web server to client. Still another format can be user-input dependant and is determined by information sent from client to server, for example a "search" command requested by the client triggers a process in the server to dynamically produce the information to be rendered."

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Debling to incorporate Applicants' admission to obtain the invention as specified in claims 6-11 because web content can be of several types and formats in a client/server environment would provide more options to meet a user's requirement.

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8-3. Regarding claim 17, Debling discloses a web server emulation device in claim 1.

Debling fails to expressly disclose the one or more non volatile storages further comprising a hidden-from-user storage area used to store at least part of the web content, wherein said one or more agents control access to the hidden-from-user storage area.

Applicants assert in the specification at page 6, lines 9-11, "In a true online client/server scenario, part of the data and programs on the server are not accessible by the client." In other words, a hidden-from-user storage area is used to store at least part of the web content.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Debling to incorporate Applicants' admission to obtain the invention as specified in claim 17 because with a hidden-from-user storage area would improve the security and privacy.

9. Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Debling, U.S. Patent 7,031,903 B2 issued April 18, 2006, and filed October 16, 2001, in view of Official Notice.

9-1. Regarding claims 13-16, Debling discloses a web server emulation device in claim 1. Specifically, Debling discloses a direct link 751 to connect the host and the Ethernet port 750 of the communication device 700.

Debling fails to expressly disclose wherein the physical connection includes one or more cables and wherein the web server emulation device couples to the digital appliance by directly physically, remotely, or wirelessly connecting to the digital appliance.

"Official Notice" is taken that both the concept and the advantages of using the various connections for establishing the coupling between the web server emulation device and the

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digital appliance to meet specific requirement are well known and expected in the art. For example, when the web server emulation device and the digital appliance are located at different cities, it is well known and expected that a physically direct connection is impossible.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the direct link 751 of Debling with one of the well known connections to meet specific requirement.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure.

Reference to Savitzky et al., U.S. Patent 6,012,083 issued January 4, 2000, is cited as disclosing a peripheral can emulate a web server.

Reference to Jones et al., U.S. Patent 6,216,173 B1 issued April 10, 2001, is cited as disclosing a CPR system can emulate a web server.

Reference to Butts et al., U.S. Patent 6,233,541 B1 issued May 15, 2001, is cited as disclosing a web/emulator server.

Reference to Coker, U.S. Patent Application Publication No. 2003/0074418 A1 published April 17, 2003, and filed September 24, 2002, is cited as disclosing a web emulator.

Reference to Kim, U.S. Patent Application Publication No. 2003/0139175 A1 published July 24, 2003, and filed September 20, 2002, is cited as disclosing a web emulator.

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11. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Herng-der Day whose telephone number is (571) 272-3777. The Examiner can normally be reached on 9:00 - 17:30.


Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: (571) 272-2100.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Kamini S. Shah can be reached on (571) 272-2279. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Herng-der Day
November 13, 2006

H.D.


KAMINI SHAH
SUPERVISORY PATENT EXAMINER